We claim:

1. A wavelength-converting casting composition, for converting a wavelength of ultraviolet, blue or green light emitted by an electroluminescent component, comprising:

a transparent casting resin;

an inorganic luminous substance pigment powder dispersed in said transparent resin, said pigment powder comprising luminous substance pigments from Ce-doped phosphors; and said luminous substance pigments having grain sizes \leq 20 μm and a mean grain diameter $d_{so} \leq$ 5 μm .

- 2. The casting composition according to claim 1, wherein said luminous substance pigments are substantially spherical particles.
- 3. The casting composition according to claim 1, wherein said luminous substance pigments are flakelike particles.
- 4. The casting composition according to claim 1, wherein the mean grain diameter d_{ϵ_0} of said luminous substance pigments is between one and two micrometers.

- 5. The casting composition according to claim 1, which comprises the following components:
- a) epoxy casting resin ≥ 60 % by weight;
- b) luminous substance pigments > 0 and ≤ 25 % by weight;
- c) thixotropic agent > 0 and ≤ 10 % by weight;
- d) mineral diffusor > 0 and ≤ 10 % by weight;
- e) processing adjuvant > 0 and ≤ 3 % by weight;
- f) hydrophobic agent > 0 and $\le 3 \%$ by weight; and
- g) adhesion promoters > 0 and $\le 2 \%$ by weight.
- 6. The casting composition according to claim 1, wherein said Ce-doped phosphors are garnets.
- 7. The casting composition according to claim 1, wherein said Ce-doped phosphors are YAG: Ce based particles.
- 8. The casting composition according to claim 1, which comprises a content of iron ≤ 20 ppm.
- 9. The casting composition according to claim 1, wherein said luminous substance pigments are formed with a silicon coating.

10. A light-emitting semiconductor component, comprising:

a semiconductor body formed of a semiconductor layer sequence and being capable, during an operation of the semiconductor component, of emitting electromagnetic radiation in at least one of an ultraviolet, blue, and green spectral range;

a wavelength-converting casting composition disposed in a vicinity of said semiconductor body, said casting composition being formed of a transparent casting resin and an inorganic luminous substance pigment powder dispersed in said transparent resin, said pigment powder comprising luminous substance pigments from Ce-doped phosphors and having grain sizes \leq 20 μm and a mean grain diameter $d_{\rm 50} \leq$ 5 μm ;

said luminous substance pigments converting a portion of the radiation originating from the at least one of the ultraviolet, blue and green spectral range into radiation of a higher wavelength, such that the semiconductor component emits mixed radiation including the higher-wavelength radiation and radiation from the at least one of the ultraviolet, blue and green spectral range.

11. The light-emitting semiconductor component according to claim 10, wherein said casting composition encloses at least a part of said semiconductor body.

- 12. The light-emitting semiconductor component according to claim 10, wherein said semiconductor body is adapted to emit radiation in a blue spectral range having a maximum luminescence intensity at $\lambda = 430$ nm or at $\lambda = 450$ nm.
- 13. The light-emitting semiconductor component according to claim 10, which further comprises an opaque base housing having a recess formed therein, said semiconductor body being disposed in said recess and said recess being at least partially filled with said casting composition.
- 14. The light-emitting semiconductor component according to claim 10, wherein said casting composition is provided with various kinds of luminous substance pigments in respect to a host lattice distribution and a type and extent of doping.
- 15. The light-emitting semiconductor component according to claim 10, wherein said semiconductor body is a blue light emitting semiconductor body, and said Ce-doped phosphor comprises types of garnet adapted to shift some of the blue light emitted by said semiconductor body into a yellow spectral range, whereby the semiconductor component emits white light.

16. The light-emitting semiconductor component according to claim 10, wherein said semiconductor body is a blue light emitting semiconductor body, and said Ce-doped phosphor shifts some of the blue light emitted by said semiconductor body into a green and red spectral range, whereby the semiconductor component emits white light.